

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 March 2001 (15.03.2001)

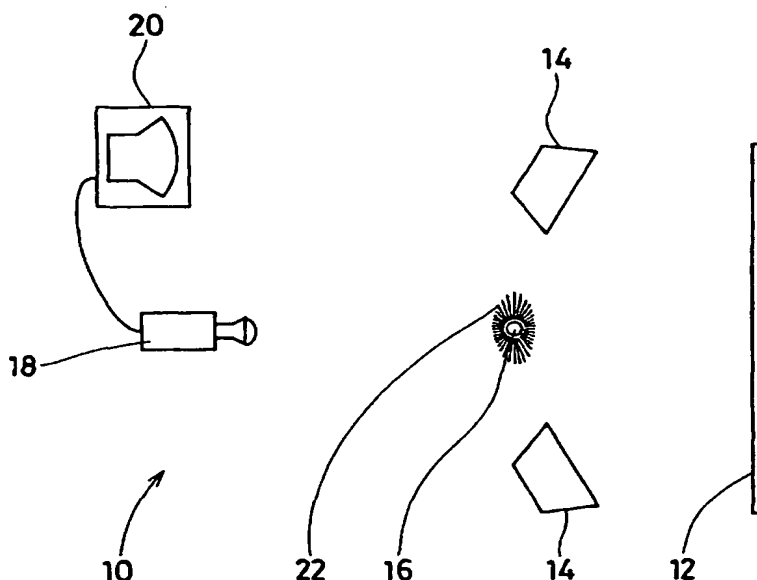
PCT

(10) International Publication Number
WO 01/17490 A1

- (51) International Patent Classification⁷: **A61K 7/06** (74) Agents: REED, David, T. et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).
- (21) International Application Number: PCT/US99/20183
- (22) International Filing Date:
3 September 1999 (03.09.1999)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **THE PROCTER & GAMBLE COMPANY** [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **YANG, Jian-Zhong** [CN/JP]; 2-1-215-727 Koyo-cho, Naka 1-chome, Higashinada-ku, Kobe 658-0032 (JP); **SCOTT, Louise, Gail** [GB/JP]; 1-14-11 Sumiyoshi Honmachi, Higashinada-ku, Kobe 658-0051 (JP).
- (81) Designated States (national): AE, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— With international search report.

[Continued on next page]

(54) Title: A HAIR CARE COMPOSITION CONTAINING AN ALKYL ETHOXYLATE AND PROCESS FOR FORMING SAME



(57) Abstract: Improved hair care compositions include an alkyl ethoxylate and a gel matrix which includes a cationic surfactant, a solid fatty compound, and water. The alkyl ethoxylate is of the formula $R-O-(C_2H_4O)_nH$, where R represents an alkyl group having from about 1 to about 30 carbon atoms, and where n represents a number from about 1 to about 10. The weight average molecular weight of the alkyl ethoxylate is less than about 500 g/mol, and the HLB value of the alkyl ethoxylate is from about 5 to about 12. A novel process may form the improved hair care composition.

WO 01/17490 A1